



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **73910** | Service: **DTV** | Call **WPXI** | Channel: **23 (UHF)** |
ID: | Sign:
File **0000028030**
Number:
FRN: **0014361083** | Date **10/08**
Submitted: **/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WPXI, LLC Doing Business As: WPXI, LLC	Director of Engineering 4145 EVERGREEN ROAD PITTSBURGH, PA 15214 United States	+1 (412) 237-1100	doe@wpxi. com	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Otto Schellin <i>Director of Engineering</i> WPXI, LLC	Otto Schellin 4145 Evergreen Road Pittsburgh, PA 15214 United States	+1 (412) 237-1184	doe@wpxi.com

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Build CH23 xmtr, replace ant stack with CH23 ant mounted on pole. Use the CH48 main feedline for a new CH23 aux ant. Install a new feedline for the CH23 main ant. Remain on air using the CH48 aux ant. After transition, remove the CH48 aux ant and feedline.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Auxiliary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DHD60P2
	Year	2008
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	14 kW

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	16.1 kW
	Justification for New Transmitter	Current auxiliary transmitter cannot be retuned.

**Auxiliary
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 30% of total quoted amount to account for aux transmitter needs.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
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Exterior Foundation	Concrete pads for heat exchangers. 50% of total on the main transmitter and 50% on the aux transmitter.
Auxiliary Transmitter - Power Sensor	Auxiliary Transmitter - Power Sensor
Auxiliary Transmitter - Ice Bridge Foundation	Auxiliary Transmitter - Ice Bridge Foundation
Auxiliary Transmitter - Additional Installation	Auxiliary Transmitter - Additional Installation
Auxiliary Transmitter - Piping Installation	Auxiliary Transmitter - Piping Installation
Interior Work	Labor to unload and position all transmitter equipment, framing to install RF filters, patch previous transmission line entry points. 50% of total on the main transmitter and 50% on the aux transmitter.

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	CD200P2
	Year	1999
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTED-80
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50.1 kW
	Justification for New Transmitter	Current transmitter cannot be retuned to the new channel assignment. Also, IOT replacement transmitter would be more costly.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 70% of total quoted amount to account for main transmitter needs.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary
Transmitter****Other Transmitter Cost Not Listed**

Name	Description
Primary Transmitter - Piping Installation	Primary Transmitter - Piping Installation
Primary Transmitter - Additional Installation	Primary Transmitter - Additional Installation
Spare Transmitter Parts	WPXI currently has an inventory of replacement amplifiers, power supplies, circuit breakers, circuit assemblies and a manufacturer supplied parts kit for our main transmitter. These parts are not compatible with the new transmitter and must be replaced.
Primary Transmitter - Power Sensor	Primary Transmitter - Power Sensor
Primary Transmitter - Ice Bridge Foundation	Primary Transmitter - Ice Bridge Foundation
Interior Work	Labor to unload and position all transmitter equipment, framing to install RF filters, patch previous transmission line entry points.50% of total on the main transmitter and 50% on the aux transmitter.
Spare Cooling System Parts	To replace currently existing spare parts inventory on our cooling system. These parts are not compatible with the new transmitter and must be replaced.
Primary Transmitter - Additional Connectors	Primary Transmitter - Additional Connectors
Exterior Foundation	Concrete pads for heat exchangers 50% of total on the main transmitter and 50% on the aux transmitter.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Auxiliary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TFU-30DSC-R O4
Year	2008

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TFU-28DSC-R O4
Year	2018
Justification for New Antenna	Current antenna can not be tuned to the new channel.

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TFU-30GBH-R O6
Year	1999

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TFU-27ETT /VP-R O6
Year	2018
Justification for New Antenna	Current antenna can not be tuned to the new channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Auxiliary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	600 feet per run

**Auxiliary
Transmission Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	300 feet per run
	Justification for New Transmission Line	Need to re-route line to new entry point on building.

**Auxiliary
Transmission Line**

Other Transmission Line Expenses Not Listed

Name	Description
Ice Bridge	Needed to protect new transmission line from falling ice off the tower. Also includes concrete foundation necessary for the ice bridge installation. 50% of total on the main transmitter and 50% on the aux transmitter.

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	850 feet per run

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	921 feet per run
	Justification for New Transmission Line	The current line will be in use for the current channel. We will need to install new line for new channel.

Primary **Other Transmission Line Expenses Not Listed**
Transmission Line

Name	Description
Ice Bridge	Needed to protect new transmission line from falling ice off the tower. Also includes concrete foundation necessary for the ice bridge installation. 50% of total on the main transmitter and 50% on the aux transmitter.

**Tower
Equipment
And
Rigging
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1032235
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 27' 47.7" N-
	Longitude (NAD83)	080° 00' 15.5" W-
	Overall Structure Height	846.77 feet
	Support Structure Height	741.46 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1200.12 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	IWG Towers Assets II, LLC
Date Constructed	06/01/1967

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
55709	WSHH	FM
59968	WWSW-FM	FM

Other Types of Users

Users
WYC531 Two Way
WQNF304 Two Way

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

**Primary
Tower**

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Other
Helicopter Services Required	Are helicopter services required?	No

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Existing Primary Tower - Relocate and Reinstall Tower Lighting	Existing Primary Tower - Relocate and Reinstall Tower Lighting
Primary Antenna Support Structure	40.8' monopole and 5' wedding cake to support primary top-mount antenna

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	480
	Explanation	Project manager is required to supervise various outside contractors and be the point person to represent the station.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes

	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	9

	Justification	These field engineering costs were necessary for the WPXI new auxiliary antenna and transmission line installation necessitated by the repack
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Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
If none are provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Site Escort	Site Escort

Cost Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTED-80	\$2,224,804.93	\$2,052,668.34		\$1,662,341.15	
Exterior Foundation	<i>\$54,271.00</i>	\$54,271.00	50% of quoted cost of exterior concrete pad. This is for the transmitter's heat exchangers and ice protection. 50% of total on the main transmitter and 50% on the aux transmitter	\$54,271.00	N/A
Primary Transmitter - Additional Connectors	<i>\$515.00</i>	\$515.00	Please see TEXOLVE quote BG041519_WPXI	\$515.00	N/A
Spare Cooling System Parts	<i>\$16,000.00</i>	\$16,000.00	To maintain an inventory of critical cooling system replacement parts equivalent to our current inventory. The current inventory of parts are not compatible with the new transmitter and must be replaced.	\$0.00	N/A

Interior Work	\$3,190.00	\$3,190.00	50% of quoted cost for interior work including labor to unload and position all transmitter equipment, framing to install RF filters, patch previous transmission line entry points. 50% of total on the main transmitter and 50% on the aux transmitter	\$3,190.00	N/A
Primary Transmitter - Ice Bridge Foundation	\$16,377.50	\$16,377.50	Please see Mascaro Construction Company Proposal 06-21-2019 & Invoice #10596 .pdf and note this is 50% of proposal amount. 50% is allocated for Auxiliary Transmitter	\$16,377.50	N/A
Primary Transmitter - Piping Installation	\$2,122.33	\$2,122.33	Please see Ruthrauff Service Proposal TD- 19-0108 and actual costs on Invoice 001278785	\$2,122.33	N/A
Primary Transmitter - Power Sensor	\$918.15	\$918.15	Please see Eos Technology Group quotation 5980 and note that this cost was split 50/50 between WPXI's primary and auxiliary transmitters.	\$918.15	N/A

Spare Transmitter Parts	\$68,000.00	\$68,000.00	WPXI currently has an inventory of replacement amplifiers, power supplies circuit breakers, circuit assemblies and a manufacturer supplied parts kit for our main transmitter. These parts are not compatible with the new transmitter and must be replaced.	\$0.00	N/A
Other Electrical Service: 480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 70% of total quoted amount to account for main transmitter needs.	\$128,100.00	\$128,100.00	Please see Estimated Cost Justification WPXI-110-1st Primary Transmitter - Other Electrical Service v0	\$128,100.00	N/A

UHF - Liquid Cooled Solid State Transmitter 50.1 kW	\$306,327.19	\$306,327.19	Please see GatesAir Inc., Quote #Q-76061 & Invoice #US0326300. pdf. The estimated cost solely reflects the transmitter upgrade - WPXI acknowledges responsibility for all costs associated with transmitter upgrade.	N/A	N/A
Primary Transmitter - Additional Installation	\$40,483.76	\$40,483.76	Please see Wellington Power Corporation quote dated Nov 13, 2018 and Change Orders #1 and #2	\$40,483.76	N/A
20 Ton system	\$115,500.00	\$91,817.00	Please see ABM Proposal PP20625	\$91,817.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,324,546.41	***System Notice: Estimate adjusted and locked because line has been superseded. ***see Estimated Cost Justification WPXI-110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 35-50 kW v0	\$1,324,546.41	N/A
Auxiliary Transmitter ULXTE-24	\$833,129.16	\$694,523.03		\$677,729.37	

Interior Work	\$3,190.00	\$3,190.00	50% of quoted cost for interior work including labor to unload and position all transmitter equipment, framing to install RF filters, patch previous transmission line entry points. 50% of total on the main transmitter and 50% on the aux transmitter.	\$3,190.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$545,393.87	N/A	\$528,600.22	N/A
Auxiliary Transmitter - Ice Bridge Foundation	\$16,377.50	\$16,377.50	Please see Mascaro Construction Company Proposal 06-21-2019 & Invoice #10596 .pdf and note this is 50% of proposal amount. 50% is allocated for Primary Transmitter	\$16,377.50	N/A
Auxiliary Transmitter - Power Sensor	\$918.15	\$918.15	Please see Eos Technology Group quotation 5980 and note that this cost was split 50/50 between WPXI's primary and auxiliary transmitters.	\$918.15	N/A

Exterior Foundation	\$54,271.00	\$54,271.00	50% of quoted cost of exterior concrete pad. This is for the transmitter's heat exchangers and ice protection. 50% of total on the main transmitter and 50% on the aux transmitter	\$54,271.00	N/A
Auxiliary Transmitter - Piping Installation	\$2,122.33	\$2,122.33	Please see Ruthrauff Service Proposal TD- 19-0108 and actual costs on Invoice 001278785	\$2,122.32	N/A
Auxiliary Transmitter - Additional Installation	\$17,350.18	\$17,350.18	Please see Wellington Power Corporation quote dated Nov 13, 2018 and Change Orders #1 and #2	\$17,350.18	N/A

Other Electrical Service: 480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 30% of total quoted amount to account for aux transmitter needs.	\$54,900.00	\$54,900.00	Please see Estimated Cost Justification WPXI-150-1st Auxiliary Transmitter - Other Electrical Service v0	\$54,900.00	N/A
Sub-total	\$3,057,934.09	\$2,747,191.37	N/A	\$2,340,070.52	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information	
Description	File Name
Exterior Foundation	Component Description: Transmitter Work Amount: \$54,271.00
Primary Transmitter - Additional Connectors	Component Description: Labor to crimp connectors and text cables Amount: \$515.00
Spare Cooling System Parts	Information not provided.

Interior Work	<p>Component Description: WPXI-110-1st Primary Transmitter - Interior Work</p> <p>Amount: \$3,190.00</p>
Primary Transmitter - Ice Bridge Foundation	<p>Component Description: Ice Bridge Foundations</p> <p>Amount: \$16,377.50</p>
Primary Transmitter - Piping Installation	<p>Component Description: Additional Labor and parts</p> <p>Amount: \$2,122.33</p>
Primary Transmitter - Power Sensor	<p>Component Description: Belden 9273</p> <p>Amount: \$918.15</p>
Spare Transmitter Parts	Information not provided.
Other Electrical Service: 480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 70% of total quoted amount to account for main transmitter needs.	<p>Component Description: Electrical Work</p> <p>Amount: \$119,000.00</p> <p>Component Description: Electrical Work 2nd payment</p> <p>Amount: \$9,100.00</p>
UHF - Liquid Cooled Solid State Transmitter 50.1 kW	Information not provided.
Primary Transmitter - Additional Installation	<p>Component Description: WPXI-110-1st Primary Transmitter - Additional Installation</p> <p>Amount: \$40,483.76</p>

20 Ton system	<div> <div>Component Description:</div> <div>Conditioning and Controls Proj</div> </div> <div> <div>Amount:</div> <div>\$91,817.00</div> </div>
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> <div>Component Description:</div> <div>Balance of payments on GatesAir Quote Q-76034 for ULXTED-80 transmitter and associated elements as per quote</div> </div> <div> <div>Amount:</div> <div>\$342,359.00</div> </div> <div> <div>Component Description:</div> <div>Down payment (1 /3 of total not including estimated shipping) for main transmitter</div> </div> <div> <div>Amount:</div> <div>\$431,075.14</div> </div> <div> <div>Component Description:</div> <div>GatesAir WPXI-TV Main Transmitter - Invoice 2 of 3</div> </div> <div> <div>Amount:</div> <div>\$431,075.14</div> </div> <div> <div>Component Description:</div> <div>ULXTED-60 Transmitter</div> </div> <div> <div>Amount:</div> <div>\$120,037.13</div> </div>
Interior Work	<div> <div>Component Description:</div> <div>WPXI-150-1st Auxiliary Transmitter - Interior Work</div> </div> <div> <div>Amount:</div> <div>\$3,190.00</div> </div>

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> Component Description: Down payment (1 /3 of total cost before estimated shipping) for WPXI-TV Aux Transmitter </div> <div> Amount: \$179,231.29 </div>
	<div> Component Description: ULXTE-24 Transmitter </div> <div> Amount: \$42,342.70 </div>
	<div> Component Description: A. Transmitter </div> <div> Amount: \$127,794.94 </div>
	<div> Component Description: GatesAir WPXI-TV Aux Transmitter - Invoice 2 of 3 total </div> <div> Amount: \$179,231.29 </div>
Auxiliary Transmitter - Ice Bridge Foundation	<div> Component Description: WPXI-150-1st Auxiliary Transmitter - Ice Bridge Foundation </div> <div> Amount: \$16,377.50 </div>
Auxiliary Transmitter - Power Sensor	<div> Component Description: WPXI-150-1st Auxiliary Transmitter - Power Sensor </div> <div> Amount: \$918.15 </div>

Exterior Foundation	<p>Component Description: WPXI-150-1st Auxiliary Transmitter - Exterior Foundation</p> <p>Amount: \$54,271.00</p>
Auxiliary Transmitter - Piping Installation	<p>Component Description: WPXI-150-1st Auxiliary Transmitter - Piping Installation</p> <p>Amount: \$2,122.32</p>
Auxiliary Transmitter - Additional Installation	<p>Component Description: WPXI-150-1st Auxiliary Transmitter - Additional Installation</p> <p>Amount: \$17,350.18</p>
Other Electrical Service: 480V transformers, raceway, wire, distribution panels, conduit, pump wiring and labor to provide electrical service. Cost represents 30% of total quoted amount to account for aux transmitter needs.	<p>Component Description: WPXI-150-1st Auxiliary Transmitter - Other Electrical Service</p> <p>Amount: \$51,000.00</p> <p>Component Description: WPXI-150-1st Auxiliary Transmitter - Other Electrical Service</p> <p>Amount: \$3,900.00</p>

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-27ETT /VP-R 06	\$555,530.00	\$234,861.00		\$234,861.00	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,135.00	Direct quoted cost from Dielectric. Is \$135.00 over predetermined estimate.	\$12,135.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$118,113.05	please see: Estimated Cost Justification WPXI-210-Primary Antenna v0	\$118,113.05	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$98,212.95	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$98,212.95	N/A

Auxiliary Antenna TFU-28DSC-R O4	\$203,880.00	\$200,148.00		\$193,589.25	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	\$161,700.00	\$161,700.00	There is no predetermined cost available for the auxiliary antenna. This cost was based on attached quote 700361CMZ-2 WPXI Cox Aux.pdf.	\$155,141.25	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$21,750.00	N/A	\$21,750.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	N/A	\$10,298.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$759,410.00	\$435,009.00	N/A	\$428,450.25	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: WPXI-210-Primary Antenna - 6 1/8" Elbow Complex Amount: \$1,213.50
	Component Description: WPXI-210-Primary Antenna - 6 1/8" Elbow Complex Amount: \$5,460.75
	Component Description: Dielectric Elbow Complex - Part of total invoice - 45% Down Payment Amount: \$5,460.75
Sweep test of existing antenna	Component Description: WPXI-210-Primary Antenna - Sweep Test Amount: \$2,880.00
	Component Description: WPXI-210-Primary Antenna - Sweep Test Amount: \$640.00
	Component Description: For Dielectric main antenna repack sweep Amount: \$2,880.00

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="713 174 1023 210">Component Description:</td><td data-bbox="1157 174 1374 244">Antenna - UHF top mount</td></tr> <tr> <td data-bbox="713 255 823 291">Amount:</td><td data-bbox="1157 255 1289 291">\$97,346.70</td></tr> <tr> <td data-bbox="713 394 1023 430">Component Description:</td><td data-bbox="1157 394 1361 506">Includes one field engineer on site for one day</td></tr> <tr> <td data-bbox="713 517 823 553">Amount:</td><td data-bbox="1157 517 1273 553">\$5,760.00</td></tr> <tr> <td data-bbox="713 656 1023 692">Component Description:</td><td data-bbox="1157 656 1377 768">6-50 Feed through components and engineering design</td></tr> <tr> <td data-bbox="713 779 823 815">Amount:</td><td data-bbox="1157 779 1289 815">\$14,140.10</td></tr> <tr> <td data-bbox="713 916 1023 952">Component Description:</td><td data-bbox="1157 916 1358 983">ANTENNA - UHF TOP MOUNT</td></tr> <tr> <td data-bbox="713 994 823 1030">Amount:</td><td data-bbox="1157 994 1251 1030">\$866.25</td></tr> </table>	Component Description:	Antenna - UHF top mount	Amount:	\$97,346.70	Component Description:	Includes one field engineer on site for one day	Amount:	\$5,760.00	Component Description:	6-50 Feed through components and engineering design	Amount:	\$14,140.10	Component Description:	ANTENNA - UHF TOP MOUNT	Amount:	\$866.25
Component Description:	Antenna - UHF top mount																
Amount:	\$97,346.70																
Component Description:	Includes one field engineer on site for one day																
Amount:	\$5,760.00																
Component Description:	6-50 Feed through components and engineering design																
Amount:	\$14,140.10																
Component Description:	ANTENNA - UHF TOP MOUNT																
Amount:	\$866.25																
<p>UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized</p>	<table> <tr> <td data-bbox="713 1162 1023 1198">Component Description:</td><td data-bbox="1157 1162 1377 1476">For Dielectric main antenna (\$88,782.75), feed-through components (\$8,563.95), and transmission line (\$866.25).</td></tr> <tr> <td data-bbox="713 1487 823 1523">Amount:</td><td data-bbox="1157 1487 1289 1523">\$98,212.95</td></tr> </table>	Component Description:	For Dielectric main antenna (\$88,782.75), feed-through components (\$8,563.95), and transmission line (\$866.25).	Amount:	\$98,212.95												
Component Description:	For Dielectric main antenna (\$88,782.75), feed-through components (\$8,563.95), and transmission line (\$866.25).																
Amount:	\$98,212.95																

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	Component Description:	ELBOW COMPLEX, SINGLE CHANNEL
	Amount:	\$6,260.70
	Component Description:	ANTENNA - UHF SIDE MOUNT
	Amount:	\$9,166.80
	Component Description:	Antenna - UHF side mount
	Amount:	\$69,423.75
	Component Description:	Dielectric Aux Antenna (\$69,423.75) and Rigid Transmission Line (\$866.25) Invoice 1 of 3 - 45% Down Payment
	Amount:	\$70,290.00

Side mount brackets for high power antennas (if not included in antenna base cost)	<div> Component Description: WPXI-250-Auxiliary Antenna - Side Mount Brackets </div> <div> Amount: \$9,787.50 </div>
	<div> Component Description: Dielectric Aux Antenna Antenna Mounting Brackets - Invoice 1 of 3 - 45% Down Payment </div> <div> Amount: \$9,787.50 </div>
	<div> Component Description: WPXI-250-Auxiliary Antenna - Side Mount Brackets </div> <div> Amount: \$2,175.00 </div>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> Component Description: WPXI-250-Auxiliary Antenna - 6 1/8" Elbow Complex </div> <div> Amount: \$1,029.80 </div>
	<div> Component Description: WPXI-250-Auxiliary Antenna - 6 1/8" Elbow Complex </div> <div> Amount: \$4,634.10 </div>
	<div> Component Description: Dielectric Aux Antenna Elbow Complex - Payment 1 of 3 - 45% Down Payment </div> <div> Amount: \$4,634.10 </div>

Sweep test of existing antenna

Component Description: WPXI-250-Auxiliary Antenna - Sweep Test
Amount: \$640.00

Component Description: Dielectric Aux Antenna Repack Sweep - Invoice 1 of 3 - 45% Down Payment
Amount: \$2,880.00

Component Description: WPXI-250-Auxiliary Antenna - Sweep Test
Amount: \$2,880.00

Cost
Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$242,694.50	\$279,256.71		\$276,946.69	
Rigid Transmission Line - copper, 6 1/8"	\$186,042.00	\$222,604.21	Please see Estimated Cost Justification WPXI-310- Primary Transmission Line - 6 1:8" Rigid Copper v0	\$220,294.19	N/A
Ice Bridge	<i>\$56,652.50</i>	\$56,652.50	Please see GTI America Quote Q18- 06-037c	\$56,652.50	N/A
Auxiliary Transmission Line	\$117,252.50	\$114,252.50		\$63,957.00	
Rigid Transmission Line - copper, 6 1/8"	\$60,600.00	\$57,600.00	N/A	\$7,304.50	N/A
Ice Bridge	<i>\$56,652.50</i>	\$56,652.50	Please see GTI America Quote Q18- 06-037c	\$56,652.50	N/A
Sub-total	\$359,947.00	\$393,509.21	N/A	\$340,903.69	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information**Description****File Name**

Rigid Transmission Line -
copper, 6 1/8"

Component Description: RIGID
TRANSMISSION
LINE - COPPER
Amount: \$14,076.05

Component Description: Rigid transmission
line
Amount: \$61,470.04

Component Description: GAS STOP 6-50 W/
HI POWER CONN
"QS
Amount: \$3,311.66

Component Description: Rigid transmission
line
Amount: \$4,021.62

Component Description: Elbow 6-50 digit
Amount: \$13,394.70

Component Description: Elbow 6-50 digit
Amount: \$13,394.70

Component Description: T/L 6-50 EIA
LENGTH 15'
Amount: \$9,247.98

Component Description: RIGID
TRANSMISSION
LINE - COPPER
Amount: \$32,774.30

	Component Description:	Rigid transmission line
	Amount:	\$61,470.04
	Component Description:	ELBOW 6-50 DIGIT 9 X 18 EHT REINFORCED
	Amount:	\$2,976.60
	Component Description:	Hanger Hor 6 1/8 3 PT Suspension
	Amount:	\$4,156.50
Ice Bridge	Component Description:	Labor for steel assembly and erection of bridge
	Amount:	\$18,948.75
	Component Description:	Tower rigging services - Other
	Amount:	\$37,703.75

Rigid Transmission Line - copper, 6 1/8"	Component Description:	Elbow 6-50 EIA 9.00 X 18.00 CU REIN CH 2-48
	Amount:	\$2,510.00
	Component Description:	WPXI-350-Auxiliary Transmission Line - 6 1/8" Rigid Copper
	Amount:	\$192.50
	Component Description:	WPXI-350-Auxiliary Transmission Line - 6 1/8" Rigid Copper
	Amount:	\$866.25
	Component Description:	T/L 6-50 EIG Length
	Amount:	\$3,735.75
Ice Bridge	Component Description:	WPXI-350-Auxiliary Transmission Line - Ice Bridge
	Amount:	\$18,948.75
	Component Description:	WPXI-350-Auxiliary Transmission Line - Ice Bridge
	Amount:	\$37,703.75

Cost Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$587,383.00	\$577,583.00		\$496,330.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$409,500.00	N/A	\$339,747.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$14,300.00	Required a site visit and climb.	\$2,800.00	N/A
Primary Antenna Support Structure	<i>\$149,145.00</i>	\$149,145.00	No predetermined cost available. This is for the primary antenna support structures needed including a 40.8' monopole and a 5' wedding cake which are not currently part of tower.	\$149,145.00	N/A

Existing Primary Tower - Relocate and Reinstall Tower Lighting	\$4,638.00	\$4,638.00	Please see Wellington Power Corporation Change Order #2A	\$4,638.00	N/A
Sub-total	\$587,383.00	\$577,583.00	N/A	\$496,330.00	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information	
Description	File Name

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:	Rigging review for top stack changeout.
	Amount:	\$6,500.00
	Component Description:	Tower rigging services
	Amount:	\$52,008.75
	Component Description:	GTI America 75% remainder payment for main antenna installation
	Amount:	\$178,500.00
	Component Description:	GTI America 25% down payment for main and aux antenna installation
	Amount:	\$76,836.25
	Component Description:	Project Extras:
	Amount:	\$25,902.00
Structural engineering tower load study for well documented tower	Component Description:	Structural Analysis
	Amount:	\$2,800.00

Primary Antenna Support Structure	<div> Component Description: Wedding cake mount adapter</div> <div> Amount: \$14,914.50 </div>
	<div> Component Description: Wedding cake mount adapter</div> <div> Amount: \$67,115.25 </div>
	<div> Component Description: Dielectric Main Antenna Support Structure - Payment 1 of 3 - 45% Down Payment</div> <div> Amount: \$67,115.25 </div>
Existing Primary Tower - Relocate and Reinstall Tower Lighting	<div> Component Description: Change Order #2A- Transmitter - Relocate Lights</div> <div> Amount: \$4,638.00 </div>

Cost
Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$240,065.00	\$245,053.40		\$109,928.40	
Additional Field Engineering Service, 9 Days	<i>\$9,850.00</i>	\$9,850.00	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$9,850.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$300.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$2,100.00	Please see WPXI RF Eng STA Budget Revision Justification Letter.pdf	\$2,100.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$825.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$1,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$15,150.00	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$15,150.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$75,840.00	\$80,203.40	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$80,203.40	N/A
Sub-total	\$240,065.00	\$245,053.40	N/A	\$109,928.40	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 9 Days	Component Description:
	WPXI-580-RF Eng - Additional Field Engineering
	Amount: \$3,450.00
	Component Description:
RF Exposure Measurements	Includes one field engineer for extra days
	Amount: \$6,400.00
	Component Description:
	WPXI-580-Field Engineering Services - RF Exposure Measurements
Comprehensive coverage verification via field study, if needed	Amount: \$300.00
	Component Description:
	Information not provided.
	Amount:
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Component Description:
	Information not provided.
	Amount:
	Component Description:
NEPA Section 106 environmental review, if needed	Information not provided.
	Amount:
	Component Description:
	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Amount:
	Component Description:
	Information not provided.
	Amount:
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Component Description:
	Information not provided.
	Amount:
	Component Description:

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	<p>Component Description: WPXI-530-RF Eng - Special Temporary Authorization</p> <p>Amount: \$2,100.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p>Component Description: PROFESSIONAL SERVICES RENDERED</p> <p>Amount: \$825.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p>Component Description: WPXI-530-RF Eng - Construction Permit Application (Aux Antenna)</p> <p>Amount: \$1,500.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="683 87 1098 376"> Component Description: Amount: </td><td data-bbox="1098 87 1428 376"> Professional Services Rendered \$13,275.00 </td></tr> <tr> <td data-bbox="683 376 1098 607"> Component Description: Amount: </td><td data-bbox="1098 376 1428 607"> PROFESSIONAL SERVICES RENDERED \$1,875.00 </td></tr> </table>	Component Description: Amount:	Professional Services Rendered \$13,275.00	Component Description: Amount:	PROFESSIONAL SERVICES RENDERED \$1,875.00
Component Description: Amount:	Professional Services Rendered \$13,275.00				
Component Description: Amount:	PROFESSIONAL SERVICES RENDERED \$1,875.00				
Prepare and or review reimbursement form	Information not provided.				

Project management of
the transition

Component Description: Project Management
Amount: \$310.00

Component Description: Project Management
Amount: \$8,613.75

Component Description: Project Management
Amount: \$2,791.05

Component Description: Project Management
Amount: \$6,897.50

Component Description: Project Management
Amount: \$17,713.60

Component Description: Project Management
Amount: \$11,946.25

Component Description: Widely Project
Management
Amount: \$6,472.50

Component Description: Project Management
Amount: \$426.25

Component Description: Project Management
Amount: \$13,368.75

Component Description: Project Management
Amount: \$852.50

Component Description: Project Management
Amount: \$10,811.25

Cost Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$171,616.38	\$171,066.38		\$116,779.38	
Site Escort	<i>\$4,550.00</i>	\$4,550.00	Please see WPXI Site Escort Budget Revision Justification Letter.pdf	\$4,550.00	N/A
MVPD Notification of Channel Change	<i>\$5,000.00</i>	\$5,000.00	N/A	\$1,250.00	N/A
Develop and air announcement of upcoming channel change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$13,044.00</i>	\$13,044.00	Please see Estimated Cost Justification WPXI-610-Equipment Storage v0	\$13,044.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$38,287.00</i>	\$38,287.00	Cost based on Estimate from GatesAir for decommissioning and removal of the channel 48 transmitters	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	please see Estimated Cost Justification WPXI-610-FCC Filing Fee - License to Cover Application v0	\$335.00	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,750.00	N/A
Equipment Delivery and Handling Charges	\$93,850.38	\$93,850.38	see Estimated Cost Justification WPXI-610-Equipment Delivery and Handling v5	\$93,850.38	N/A
Sub-total	\$171,616.38	\$171,066.38	N/A	\$116,779.38	N/A
Total for all systems	\$5,176,355.47	\$4,569,412.36	N/A	\$3,832,462.24	N/A

Components

Actual Information	
Description	File Name
Site Escort	<p>Component Description: Escort in to Tower Hill Site then back to Perrysville Avenue / Crane 3 Tractor Trailers</p> <p>Amount: \$1,500.00</p> <p>Component Description: 2 Escort Vehicles Leading Equipment into site and then return from site</p> <p>Amount: \$1,000.00</p> <p>Component Description: 2 Escort Vehicles Leading Equipment into site and then return from site</p> <p>Amount: \$2,050.00</p>

MVPD Notification of Channel Change	Component Description: Mailing Complete per FCC Repack Amount: \$1,250.00
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Component Description: WPXI-610- Equipment Storage Amount: \$7,017.00 Component Description: WPXI-610- Equipment Storage Amount: \$3,300.00 Component Description: WPXI-610- Equipment Storage Amount: \$2,727.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Component Description: Professional Services Amount: \$335.00
DTV Medical Facility Notification	Component Description: Medical notification Amount: \$3,750.00

Equipment Delivery and
Handling Charges

Component Description:	FREIGHT AND SHIPPING
Amount:	\$2,657.85
Component Description:	Freight and Shipping
Amount:	\$820.85
Component Description:	PROJECT EXTRAS TO JUNE 6, 2019
Amount:	\$31,897.91
Component Description:	Extra costs for trucking and equipment move out of site
Amount:	\$14,605.00
Component Description:	TRANSMISSION LINE-RIGID
Amount:	\$22,575.66
Component Description:	Tower Parts
Amount:	\$12,650.00
Component Description:	FREIGHT AND SHIPPING
Amount:	\$1,461.46
Component Description:	FREIGHT AND SHIPPING
Amount:	\$1,822.50
Component Description:	FREIGHT AND SHIPPING
Amount:	\$5,359.15

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$5,176,355.47	\$4,569,412.36
			\$3,832,462.24

Reimbursement Status	Question	Response
	The facility has ceased operating on its pre-auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	Yes
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	Yes

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Otto
Schellin**
*Director of
Engineering*

10/08/2021

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Otto Schellin <i>Director of Engineering</i></p> <p>10/08/2021</p>

Certification	Section	Question	Response
	Submission of Final Allocation or Accounting Information Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
4. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
6. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

Otto Schellin
Director of Engineering

10/08/2021

Attachments